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INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/012973

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H05B41/24, H05B41/288, G03B21/14			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ H05B41/24, H05B41/288, G03B21/14			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004			1994–2004 1996–2004
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X	JP 4-342993 A (Mitsubishi El 30 November, 1992 (30.11.92), Full text; all drawings (Family: none)		1-3,22
Further documents are listed in the continuation of Box C. See patent family annex.			
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Date of the actual completion of the international search 13 December, 2004 (13.12.04)		Date of mailing of the international search report 28 December, 2004 (28.12.04)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.		Telephone No.	

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International application No. PCT/JP2004/012973

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows: The matter common to the inventions of claims 1-23 is the matter disclosed in claim 1, However, the search has revealed that the matter of claim 1 is not novel since it is disclosed in document JP4-342993 A (Mitsubishi Electric Corp.), 30 November, 1992 (30.11.92). Accordingly, the matter of claim 1 makes not contribution over the prior art and cannot be a special technical feature within the meaning of PCT Rule 13.2, second sentence. (Continued to extra sheet)		
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.		
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.		
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. X No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-3, 22		
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/012973

Continuation of Box No.III of continuation of first sheet(2)

This application is divided into the following nine groups of inventions among which no technical relationship described in PCT Rule 13.2 can be seen. It is obvious that these inventions do not satisfy the requirement of unity of invention.

- 1. claims 1-3, 22
- 4. claim 4
- 3. claims 5-7
- 4. claim 8
- 5. claim 9
- 6. claims 10-15
- 7. claim 16
- 8. claims 17-21
- 9. claim 23

It should be noted that the inventions of claims 2, 3, 22 are involved in the classification unit for searching claim 1 as the main group of invention and do not require additional search. Accordingly, those inventions are classified in the same group of inventions as claim 1.